Louisville and Jefferson County
Metropolitan Sewer District

400 South Sixth Street
Louisville, Kentucky 40202-2397
Mail To: P.O. Box 740011
Louisville, Kentucky 40201

502-540-6000

MSD

January 12, 1995

Ms. Liza Montalvo
Residual Project Manager
Kentucky/Tennessee Section
U. S. Environmental Protection Agency
Region IV
345 Courtland Street, N. E.
Atlanta, Georgia 30365

Re: Report of Field Observation - FY 95, Second Quarter (FY95-2Q), Lees Lane Superfund Site, Jefferson County, Kentucky, Administrative Order on Consent, USEPA Docket No. 91-32-C

Dear Ms. Montalvo:

In accordance with Paragraph 11, under the heading Reporting Requirements, of the subject Consent Order and Attachment 1, Operation and Maintenance Plan For Post-Removal Site Control at the Lees Lane Landfill Site, I am enclosing one (1) copy of the Report of Field Observation (Appendix J), identified as Observation Report No. FY95-2Q, for your information and files.

Please advise if you have any questions concerning the attached Report of Field Observation for FY95-2Q.

Sincerely,

C. A. Neumayer
Director of Operations

CAN/dc
CAN1-4E

DOCUMENT CONTROL NUMBER 4480-83-AGVE

Enc.

cc: Kentucky Natural Resource Environment Protection Cabinet
Rick Hogan, Division of Waste Management
Kentucky Natural Resource Environment Protection Cabinet
Mr. Jeff Pratt, Division of Waste Management
G. R. Garner, Executive Director
File WD-2 (Lees Lane M&M Quarterly)

10861879

(No video camera available)

REPORT OF FIELD OBSERVATION
LEE'S LANE LANDFILL SITE, LOUISVILLE, KENTUCKY

Observation Report No: ~~FY 95 - 20~~ Date of Observation: ~~12/20/94~~

Time Arrived Onsite: ~~9:25 a.m.~~ Time Departed Site: ~~10:50 a.m.~~

Field Personnel: ~~C. A. Neumayer, Director of Operations and R. H. Watkins~~
Support Services Administrator, Maintenance Division

Section A: General Site Conditions

Observation:	Yes*	No	Not Observed	Comment No.
1. Major settlement of topsoil or erosion exposing waste/ fill material	—	~~X~~	—	~~A-1~~
2. Evidence of leachate seepage	—	~~X~~	—	
3. Distressed Vegetation	—	~~X~~	—	
4. Pot holes, erosion of access road	—	X	—	~~A-4~~

Section B: Institutional Controls

Observation:	Yes*	No	Not Observed	Comment No.
1. Structural problem with Lee's Lane gate or barricade	—	X	—	
2. Structural problem with Putman Ave. barricade	—	X	—	~~B-2~~
3. Lee's Lane gate unlocked	—	X	—	
4. Broken or missing lock	—	X	—	

Section C: Gas Collection System

Observation:	Yes*	No	Not Observed	Comment No.
1. Vandalism to blower house, wells, or moisture traps	—	X	—	
2. Structural damage to blower house	—	X	—	C-2
3. Blower not operating or visible damage	—	X	—	
4. Blower house not secure and unclean	—	X	—	C-4

Observation:	Yes*	No	Not Observed	Comment No.
5. Service box lids not in place	—	X	—	—
6. Alarm and blower controls not functioning	—	X	—	—
7. Settlement or tilting of well/moisture trap concrete collars	X	—	—	C-7
8. Well/moisture trap covers missing or damaged	—	X	—	—
9. Excessive vegetation covering wells/mositure traps	—	X	—	—
10. Adjustment valve inaccessible	—	X	—	—
11. Well/moisture trap caps, plugs, and piping missing or damaged	X	—	—	C-11
12. Blower house and well/ moisture trap signs missing or damaged	—	X	—	C-12

Section D: Groundwater & Gas Monitor Wells

Observation:	Yes*	No	Not Observed	Comment No.
1. Wells unlocked	—	X	—	—
2. Guard posts and rails missing or damaged	—	X	—	—
3. Protective casing missing, damaged or rusted	X	—	—	D-3
4. Concrete pads damaged or cracked	—	X	—	D-4
5. Possible surface water infiltration into wells	—	X	—	—
6. Excessive vegetation or debris around wells	X	—	—	D-6
7. Well cap missing or damaged	—	X	—	D-7
8. Tubing, fittings, and valves missing or damaged (gas wells only)	—	—	X	D-8

Section E: Bank Protection Controls

Observation:	Yes*	No	Not Observed	Comment No.
1. Subsidence of slope, sloughing or caving	—	X	—	—
2. Erosion of rip-rap or underlying material	—	—	X	E-2
3. Abnormally damp areas, wet ground vegetation	—	X	—	—
4. Soft spots in surface	—	X	—	E-4
5. Seepage, water flow, piping, or sand boils	—	—	X	—
6. Undermining of rip-rap	—	X	—	—
7. Vegetative growth on rip-rap slope	X	—	—	E-7
8. Buildup of trash and debris on rip-rap	X	—	—	E-8
9. Exposed trash or filter fabric	—	X	—	—
10. Tilting trees	—	X	—	—
11. Tension cracks	—	X	—	—
12. Survey monuments missing or damaged	—	X	—	F-12

Section F: Surface Waste Cleanup/Cover

Observation:	Yes*	No	Not Observed	Comment No.
1. Swales greater than 1 foot wide and 2 inches deep	—	X	—	F-1
2. Cracks greater than 1 inch wide and 6 inches deep	—	X	—	—
3. Areas of erosional damage to grass	—	X	—	—
4. Inadequate grass cover (area > 36 ft^2	—	X	—	—
5. Ponded water (area larger than 2 feet in diameter and 3 inches deep)	—	X	—	—
6. Erosion or ponded water greater than 12 inches deep (requires immediate repair)	—	X	—	—

* If yes, assign a comment no. in the last column and follow instructions on comment sheet.

REPORT OF FIELD OBSERVATION
LEE'S LANE LANDFILL SITE, LOUISVILLE, KENTUCKY

Observation Report No. FY95 - 20 Date of Observation 12/20/95

Site Map

Signature of Observer: [signature] Date: Jan. 12, 1995

REPORT OF FIELD OBSERVATION
LEE'S LANE LANDFILL SITE, LOUISVILLE, KENTUCKY

Observation Report No.: FY95 - 2Q **Date of Observation: 12/20/94**

Instruction: If any item is checked yes, provide details of the problem and maintenance recommendations below and indicate the location deficiency on the site map provided.

Comment No.:	Comment
A-1	Observed evidence of continued extensive damage to the Louisville/Southwest Jefferson County earthen levee caused by ATVs and trail bikes. Erosion of earthen levee surfaces is more severe than in the past. Noted evidence of damage to the clay cap area of the landfill site by ATVs or trail bikes.
A-4	Observed the condition of depressed areas along asphalt access road adjacent to the clay cap area. Tree and vegetative growth in the depressed areas should be cut and removed.
B-2	The condition of Putman Avenue barricade is unchanged from previous quarterly inspections. Security cable installed by MSD forces continues to restrict unauthorized entry to the landfill site from adjacent residential properties at the end of Putman Avenue. Noted evidence of solid waste dumping along the barricaded portion of Putman Avenue extending back toward the earthen levee.

Comment No.	Corrective Action Performed
A-1	No further corrective action will be performed at this time pending meeting with U S Army Corps of Engineers, Louisville District, to discuss control of trespassers.
A-4	Significant tree and vegetative growth in depressed areas along the asphalt access road adjacent to clay cap area to be cut and removed no later than FY 95 - 4Q.
B-2	No further corrective action required at this time. Continue to monitor at subsequent quarterly institutional inspections.

Comment No.:	Comment
C-2	Observed a minimal amount of small arms fire damage to the concrete block walls of the Blower House and warning signs.
C-4	Noted that the Blower House was locked and the exterior roof and trim were in good condition.
C-7	Observed damaged gas collection well and moisture trap concrete collars at Gas Collection Well No. 7, 13, and 15. This damage has been previously reported and should be corrected as part of the investigation into the conditions of vacuum collection gas well field piping system, see comment C-11.
C-11	Investigation of vacuum conditions of the well field piping system between gas collection Wells No. 1 and 14, inclusive, remain to be completed. Investigation of vacuum conditions subject to scheduling arrangements between MSD Urban Area Maintenance section and Maintenance Division, Wastewater Repair Department.

Comment No.	Corrective Action Performed
C-2	No further corrective action required at this time. Continue to monitor at subsequent quarterly institutional inspections for small arms fire damage to the concrete block walls of the Blower House and warning signs.
C-4	No further corrective action required at this time. Continue to monitor at subsequent quarterly institutional inspections.
C-7	Damage to concrete well and moisture trap collars to be scheduled for replacement prior to the end of FY 95 - 4Q.
C-11	Vacuum testing needs to be scheduled in order to verify those gas collection wells not functioning properly. Following verification, selected exploratory excavation work will need to be performed in order to expose several well heads and moisture traps in order to determine what malfunctions are causing lack of vacuum on the collection system. Depending on work force availability and weather conditions, testing and exploration work should be performed before the end of FY 95 - 4Q.

Comment No.:	Comment
D-3	Observed several protective well casings that exhibited some evidence of rusting.
D-4	A new concrete seal pad has been installed at groundwater Well No. 5 to replace the unsatisfactorily installed concrete pad.
D-6	Refrigeration type debris dumped adjacent to groundwater Well No 5.
D-7	Observed same minor damage to the steel hinge and cap on groundwater Well No. 3 near the center of the clay cap area which has been previously reported.
D-8	Condition of tubing and fittings at gas monitoring wells could not be observed because all security locks were in place. It is assumed that all tubing and fittings are in working order because of their use during the quarterly field monitoring activities conducted earlier in the month of November, 1994

Comment No.	Corrective Action Performed
D-2	Repairs to horizontal guard rails on gas monitoring Well No. G-4 have been completed.
D-3	Scraping of rust spots and repainting of protective ground water and air monitoring well casings should be scheduled and completed before the end of FY 95 - 4Q.
D-4	No further corrective action required at this time.
D-6	Removal of refrigeration type debris should be scheduled to be completed prior to the end of FY 95-4Q.
D-7	Minor damage to steel hinge and cap on groundwater Well No. 5 is not significant and no corrective action required at this time.
D-8	No corrective action required at this time.

Comment No.:	Comment
E-2	Unable to observe any erosion of riprap or underlying river bank material because of extensive vegetative growth which continues to stabilize the river bank.
E-4	No change observed from previous quarterly inspections of the minor depression approximately 50 feet south of Benchmark No. 4; immediately west of the access road in the vicinity of the shale drainage swale.
E-7	Noted MSD forces had begun trimming heavy stemmed vegetative growth from the upper portion of the central clap area riprap section.
E-8	Observed debris deposited by high Ohio River water levels on the riprap section of the clay cap bank. This drift and debris has been deposited on the lower portion of the riprap section and is substantially the same as observed during prior quarterly institutional inspections.

Comment No.	Corrective Action Performed
E-2	Arrangements to be made for either force account or procurement of an independent contractor to spray landfill site for control of excessive vegetation growth in the riprap section with an approved herbicide prior to the end of FY 95-4Q and to provide better observation of riprap conditions. Herbicide spraying of vegetation below the bottom of the riprap section adjacent to the Ohio River should be avoided or curtailed because this vegetation provides bank stability and avoids scouring under high water conditions on the Ohio River.
E-4	Continue to monitor minor depression observed approximately 50 feet south of Benchmark No. 4 and west of the shale ditch swale at subsequent quarterly institutional inspection.
E-7	Continue observation of spotty vegetative growth areas in the upper portion of the center clay riprap section during subsequent quarterly institutional inspections.
E-8	No corrective action proposed at this time to remove drift from the riprap section.

Comment No.:	Comment
E-12	Observed that several of the previously installed steel markers for the location of riprap monuments are missing.
F-1	Observed the shale drainage swale between the clay cap access road and the top of the riprap section. The drainage swale appears to be in satisfactory condition with no evidence of erosion or standing water between the access road and the riprap section.

Comment No.	Corrective Action Performed
E-12	Re-install steel markers for location of riprap monuments by the end of FY 95 - 3Q.
F-1	Continue to monitor shale drainage swale at quarterly institutional inspections for any significant evidence of erosion or standing water.